

Fire Ribbon™

TECHNICAL MANUAL & USER HANDBOOK



Important

For use with Natural Gas (G20) or LPG (G31), check data plate within appliance for settings. There are 2 Natural Gas Versions of this Fire that are CE approved. Please refer to data plate for actual heat input of appliance.

It is recommended, even if you have fitted these appliances before, that you take the time to read through these instructions and follow them step by step.

Serial Number.....

Please quote this serial number when calling to discuss technical issues, ordering spare parts or making a warranty claim. Your Warranty is valid for 1 Year from date of delivery. The Warranty card supplied with the appliance should be completed by the installer and returned to the address below.

**Spirit Fires Limited. Unit 4, Beaumont Square, Aycliffe Industrial Park, Newton
Aycliffe, County Durham, DL5 6XN.**

**This manual must be handed to the owner of the property once the
fire has been installed and commissioned**

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CVO Commissioning Checklist

Important Notice

Explain the operation of the appliance to the end user, hand the completed instructions to them for safe keeping, as the information will be required when making any guaranteed claims.

Flue Check	Pass	Fail
1. The Flue is correct for appliance (see technical section)		
2. Flue Flow test		
3. Spillage test		
Gas Check		
1. Gas soundness & let by test		
2. Standing pressure test		
3. Appliance working pressure (on High Setting). Note: All other gas appliances must be operating on full while this test is performed.		
4. Gas rate		
5. Does room ventilation meet appliance requirements		

Dealer and Installer Information

Dealer.....	Installation Company.....
.....
.....
Contact No.....	Engineer.....
Date of Purchase.....	Contact No.....
Model No.....	Corgi Reg No.....
Gas Type.....	Date of Installation.....

This product is guaranteed for 1 year from the date of installation, as set out in the terms and conditions of sale between CVO and your local CVO dealer. This guarantee will be invalid, to the extent permitted by law, if the above Commissioning Checklist is not fully completed by the installer.

Appliance Technical Data

Gas	Gas Type	Gas Category	Gas Pressure	Injector [x 2]	Pilot Assembly	Nominal Heat Input [Gross, kW]	Minimum Flue Diameter	Minimum Flue Length	Countries of Destination
NG	G20	I_{2H}	20mbar	090	P4-70	17.2	200mm	1.0m	AT, BG, CH, CZ, DK, EE, ES, FI, GB, GR, HR, IE, IT, LT, LV, NO, PT, RO, SE, SI, SK, TR
				460	NG9103	14.0	200mm	1.0m	
				440	NG9103	12.1	175mm	2.0m	
				340	NG9103	10.5	175mm	2.0m	
				300	NG9103	9.2	175mm	2.0m	
NG	G20	I_{2E}	20mbar	460	NG9103	14.0	200mm	1.0m	DE, LU, PL, RO
				440		12.1	175mm	2.0m	
				340		10.5	175mm	2.0m	
				300		9.2	175mm	2.0m	
				460		14.0/13.0	200mm	1.0m	
NG	G20 ⇄G25	I_{2E+}	20mbar⇄ 25mbar	440	NG9103	12.1⇄11.1	175mm	2.0m	BE, FR
				340		10.5⇄9.6	175mm	2.0m	
				300		9.2⇄8.4	175mm	2.0m	
				460		13.0	200mm	1.0m	
				440		11.1	175mm	2.0m	
NG	G25	I_{2L}	25mbar	340	NG9103	9.6	175mm	2.0m	NL
				300		8.4	175mm	2.0m	
				460		13.0	200mm	1.0m	
				440		11.1	175mm	2.0m	
				340		9.6	175mm	2.0m	
LPG	G31	I_{3P(37)}	37mbar	160	P4-14	20.0	200mm	1.5m	BE, CH, CZ, ES, FR, GB, GR, HR, IE, IT, LT, NL, PL, PT, SI, SK
				125	LPG9272	12.4	175mm	3.0m	

- Refer to Data Plate for model supplied.
- Gas Connection is via an 8mm Isolation Valve.
- Appliance Mass - Approximately 75kgs.

Introduction

This appliance is supplied as a complete suite of enclosure of gas fire burner unit, enclosure and fascia. To comply with the approval this fire must be installed as designed.

The fascia must be installed as intended and ventilation to the burner must be provided. Special notice should be taken for the requirements of both the metal and stone fascia versions as the enclosure must be installed differently.

An optional gather is available upon request to attach the enclosure to a 200mm Flue Liner. This should be ordered with the appliance however if this has been missed this can be ordered from Customer Services on 01325-327221. Depending on the stock situation this may take a number of days.

This is a high power appliance and a steady gas supply within +/- 1mBar of the approved pressure must be maintained at all times. Inlet is via an 8mm gas line. If the gas line is longer than 1.5mtrs then the gas line should be increased in diameter to 15mm and possibly larger depending on the length of gas pipe required.

LPG Version. If running n Gas Bottles two 47Kg bottles with regulator and changeover valve will be required. Failure to do this will result in nuisance shutdowns.

This appliance requires a 240v 3A fused spur next to the appliance and within easy access of the user.

For some countries a purpose provided air supply must be fitted in accordance with National Regulations (e.g. United Kingdom - minimum 100 cm²)

Unpacking the Appliance

Read these instructions fully before proceeding.

Carefully examine the carton for damage before unpacking. If it is obviously damaged, consult the supplier over whether to proceed.

Remove the fire and examine its general condition. If satisfied by the condition proceed with the installation. Any damage or defects must be reported "before" installing the appliance. No claims will be accepted for damage after the appliance has been installed.

The installation should only be carried out by a GAS SAFE Registered fitter and in accordance with national and local Regulations for both gas and electricity.

The installation must also be in accordance with relevant parts of local and national building regulations.

For the Republic of Ireland, reference should be made to IS813 and ICP3 and any guidance notes from Bord Gais.

Failure to have the fire fitted by a qualified person nullifies ALL guarantees.

Burner Construction

Take some time to review the burner construction taking note of the positions of the main components and connections.

WARNING: Removal of the connections from the remote system or the grommets holding the mains supply and hard wire as shown in the burner construction drawings will result in the warranty being invalidated. No claims will be accepted for damage caused by the burner being tampered with. All CVO fires are given a 100% full function test at the factory and are very reliable hence there is no need to remove any fittings.

There are 3 connections to the burner unit.

- 240V 3A Mains supply
- 8mm Gas Connection
- Hard Wire Remote Switch

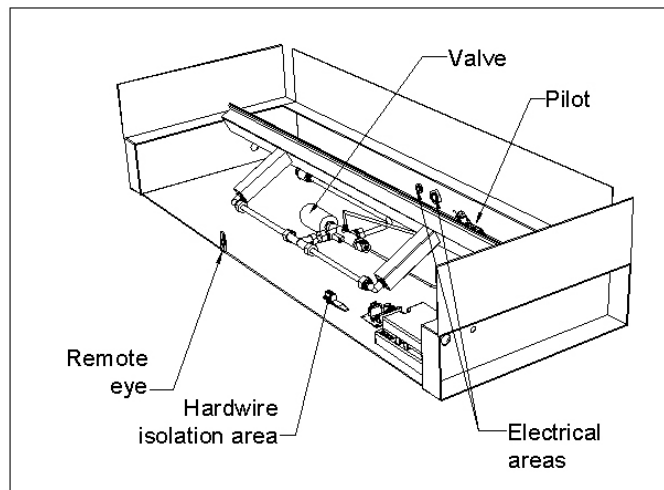
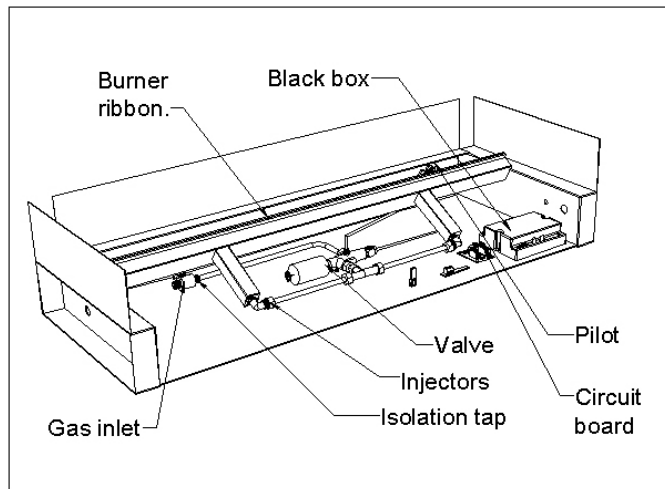
Before commencing to create the fire opening for the inglenook unit, Note to maintain a good standing pressure we recommend that a 15mm supply be piped in as close as possible with a reduction down to 8mm diameter copper pipe (no longer than 2m in length – gas supply to the burner unit) must be installed, the gas supply pipe should run into the installed enclosure from either the rear, left or right hand sides, the gas supply is best run through the left side of the enclosure.

Additionally a 240volt 3amp fused spur power supply should be installed. This is best fitted so that the power supply is located to the right side of the unit. This will provide the power source for the remote control system.

NOTE – DO NOT connect power to the hardwired switch as this will damage the remote control system. There are yellow labels attached to the cables please follow the information.

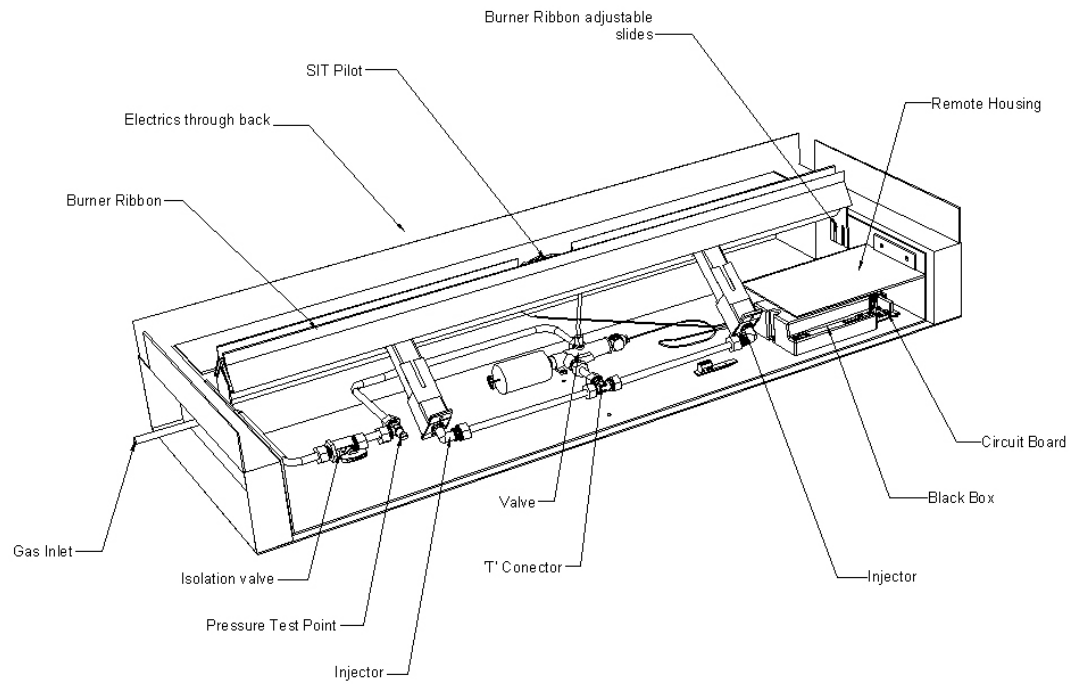
Burner Identification

LPG Version

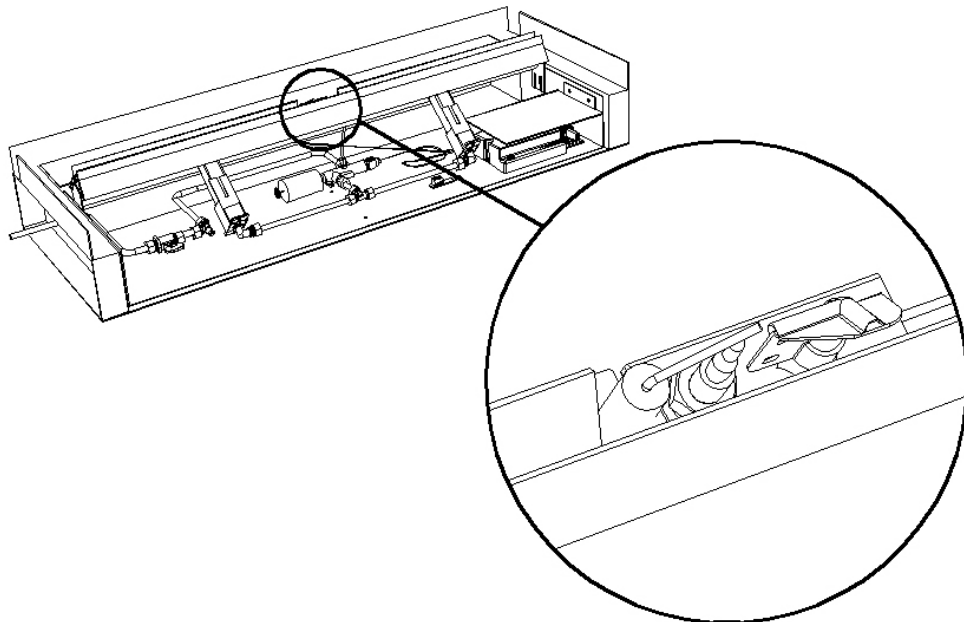


Note - The version shown is for a Stone enclosure. The Metal enclosure version has the burner carriage built into the enclosure for ease of installation.

Natural Gas Version



SIT Pilot location (Only on Natural Gas Versions).



Note - The version shown is for a Stone enclosure. The Metal enclosure version has the burner carriage built into the enclosure for ease of installation.

Power Supply

Read through this section before starting the installation. The installation should only be carried out by a GAS SAFE registered installer and in accordance with national and local regulations for both gas and electricity.

Power Supply	230v AC-15%+10%, 50/60 Hz
Max power consumption	20VA cos 0.6 (Peak)
Stand-by power consumption	1W
Ambient Temperature	0.80 C
Protection	IP 20
Humidity	Max 95% at 40c
Electrical protection	Not required
Connections	STELVIO/STOCKO
Waiting time for demand	3-5 seconds typically
Ignition Time	20 seconds typically
Ignition Frequency	1Hz
Spark gap	Max 6mm
Ignition Cable length	500mm

The black lead is the electrical feed to the burner, a 3 amp fused spur located wherever convenient is to be connected between the power supply and the burners black lead. The Grey or white wire is connected to the **hardwire switch** which if used, can be positioned as required. NOTE- DO NOT connect the Hardwire switch to the mains, as this will damage the unit.

A mains connection is required close to the fireplace-a 0.7m cable is provided for this purpose with a special plug connected to the burner control box.

A 3amp socket may be used, or a fused spur outlet can be purpose provided.

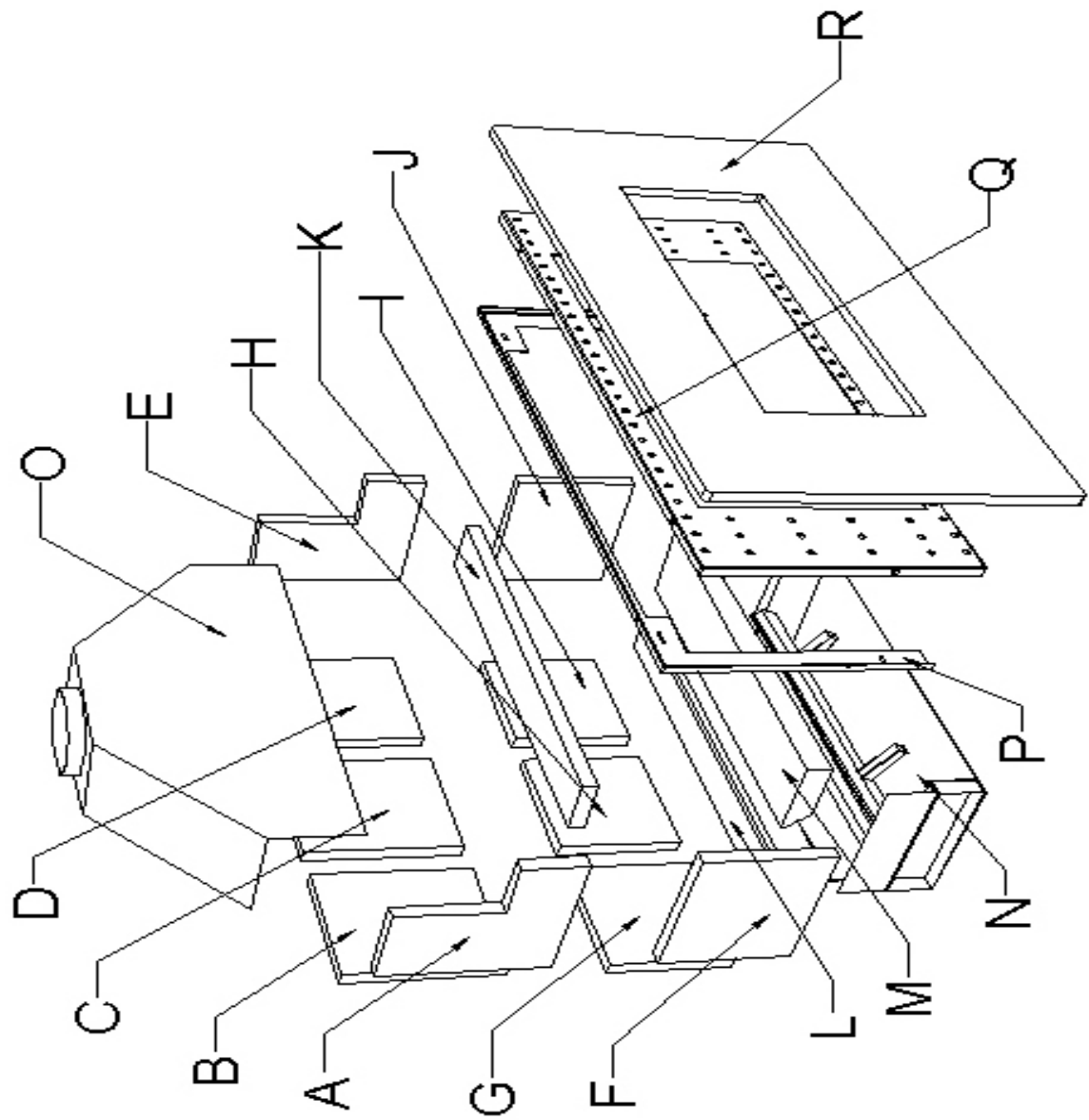
The colour code of the mains is as follows;

Green/Yellow - **EARTH**
Brown - **LIVE**
Blue - **NEUTRAL**

The appliance must be in a position so that the mains supply is accessible for routine maintenance. **A 3amp fuse should be fitted in the plug of fused spur.**

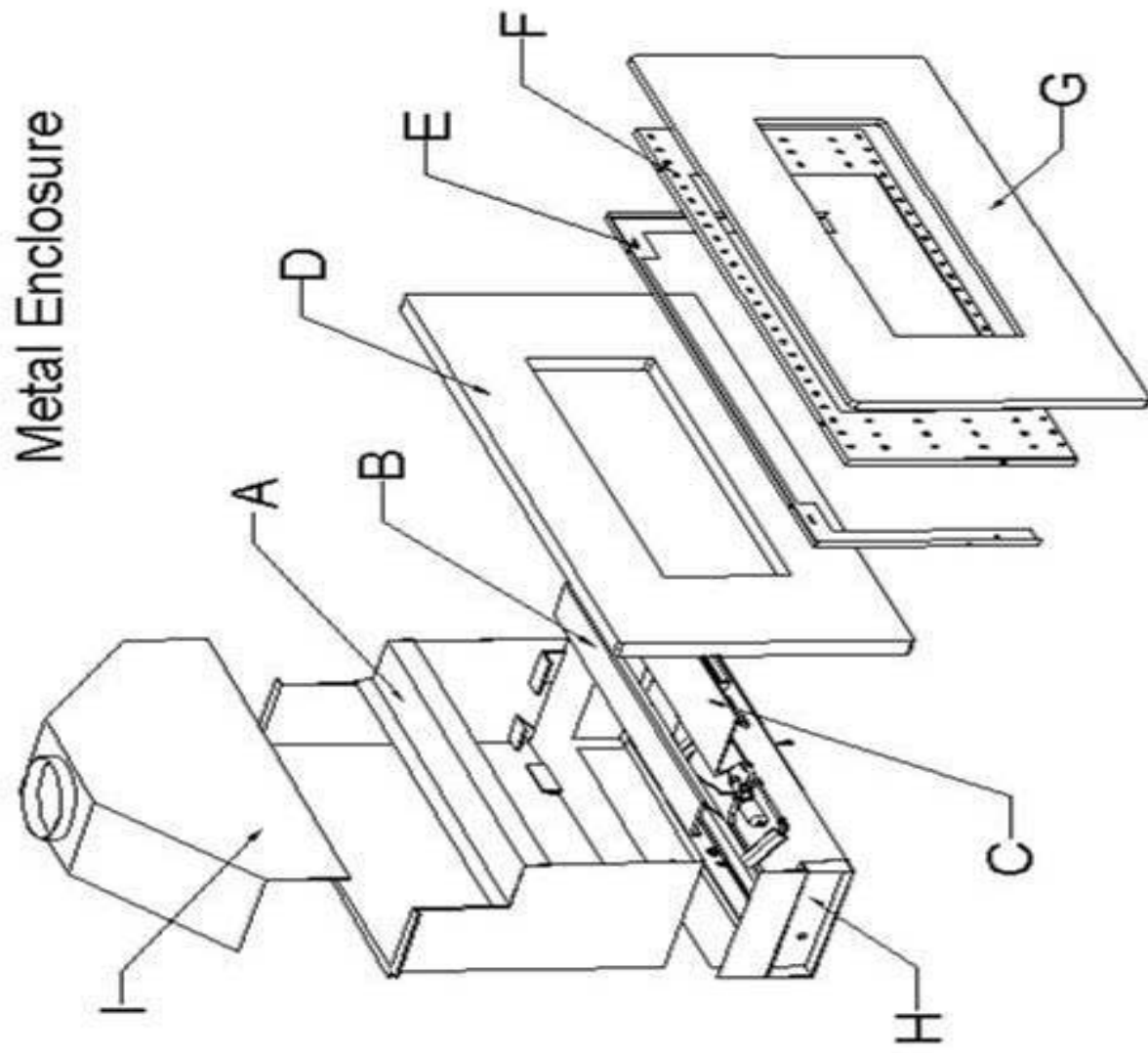
WARNING – This appliance must be earthed.

Parts List – Stone Enclosure



- A - Top left panel
- B - Top left back panel
- C - Top centre back panel
- D - Top right back panel
- E - Top right side panel
- F - Bottom left side
- G - Bottom left back panel
- H - Bottom centre back panel
- I - Bottom right back panel
- J - Bottom right side panel
- K - Marble Lintel
- L - Back base panel
- M - Front base panel
- N - Burner
- O - Gutter
- P - Wall hanging bracket
- Q - Fascia hanging bracket
- R - Fascia

Parts List – Metal Enclosure



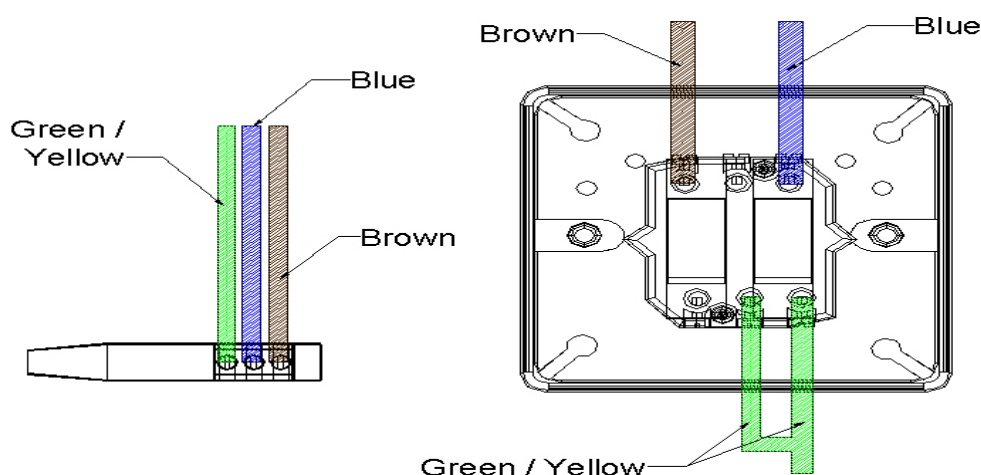
- A - Metal enclosure
- B - Back base panel
- C - Front base panel
- D - Metal fascia
- E - Hanging bracket
(only for stone fascias)
- F - Fascia bracket
bonded to the stone.
(only for stone fascias)
- G - Stone fascia
- H - Bumer unit
- I - Gether

Note: Following a design change in Oct-2008 Item "H" now forms a complete part with part "A". This is to make installation easier.

Remote Control System

The remote system is supplied with both the hard-wired wall mounted switch and infrared hand held system as standard. Both options allow full control of the fire – ON, OFF, UP, DOWN. The wall mounted switch and cable carries low voltage, (20v). The colour code used in the switch wiring diagrams must not be confused with normal mains colour coding.

Use and install both systems. This gives increased reliability and is recommended by CVO. The removal of the remote components can lead to accidental damage of the remote system which will not be covered by the warranty. The magic eye is situated on the fascia and great care must be taken on plugging this into the control board. When running the cabling for the hardwire great care must be taken to ensure that the switch is wired correctly (see image below taking notice of the “top” of the switch which is where the Blue/Brown are attached).



Burner Connections

This fire is supplied with an enclosure and integral burner.

IMPORTANT: The appliance is supplied with a fully tested and working gas burner. There is no need to dismantle the burner. This could result in damage to the fire which is not covered by the warranty. No connections should be removed or broken. **Removal of any connections will result in the warranty being invalidated.**

The Fire requires 3 connections:

1. GAS SUPPLY

The fire has an 8mm inlet via an isolation valve. The fire also includes a pressure test point elbow to test inlet pressure. The gas pipe work should be routed into the enclosure via the available access holes. If the gas pipe work is over 1.5mtrs in length it is recommended that the pipe work is increased in diameter from this point to 15mm and possibly 22mm depending on the length to the meter. This will ensure a stable gas supply.

2. HARD WIRE REMOTE

The hard wire remote has a switch connected. This cable should be routed from the appliance to a position which is suitable for the user. If it is required to remove the switch plate in order to install into the wall great care must be taken when removing the switch. The switch has a "top" marked on it. The cables must be fitted back in the same sequence otherwise remote damage will occur.

3. MAINS VOLTAGE

This is via a black cable. This must be fitted to a 3A 240V fused spur supply which is within access of the user should the fuse need changing. This is the power source for the remote control system.

Great care must be taken when handling the burner and hard wire system.

Burner Removal

Removal of the burner will invalidate the warranty. If the burner needs to be removed for repair follow the below steps:

- Remove the front shelf.
- Remove the 2 screws on each side which hold the shelf mounting brackets to the enclosure.
- Disconnect the gas and electricity supply.
- The burner carriage is screwed to the bottom of the enclosure by 2 screws. Once removed the full burner assembly will lift out.
- Refit is the same procedure in reverse.
- The fire should be commissioned once refitted.

Installation Instructions

General

This Fire Ribbon unit is intended for decorative purposes. The installation must be in accordance with National Regulations and must be carried out by a qualified installer.

Clearances between the fire and all combustible materials must conform to National Regulations.

This fire must be installed and used in accordance with these instructions. Prior to installation, ensure that the local distribution conditions (identification of the type of gas and pressure and the adjustment of the appliance) are compatible.

The builders opening or fireplace opening must be constructed of a non-combustible material.

When installed, this unit should be located to the rear of the fire opening.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

For some countries a purpose provided air supply must be fitted in accordance with National Regulations (e.g. United Kingdom - minimum 100 cm²)

Any flue damper plate or flue restrictor must be removed or fixed permanently in a fully open position, or shall only be fitted in accordance with National Regulations.

The chimney must be swept before the appliance is installed.

NOTE: If the chimney is not swept, there is a possibility that loose debris will fall onto the appliance which may result in damage and unnecessary service costs. A simple smoke test will determine if the flue is working correctly.

Before the fire is installed a flue test in accordance with National Regulations should be carried out. The unit must not be installed unless the chimney / flue length is at least the length and size indicated in the 'Technical Data' section.

Under no circumstances should this unit be installed and operated within any premises without an adequate flue or chimney system.

The gas connection must be in accordance with National Regulations.

An isolation valve (or valves) has to be fitted adjacent to the appliance, which, when closed allows the complete burner and control assembly to be disconnected for maintenance and repair in accordance with national regulations.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing device. If for any reason any part of the pilot assembly is to be replaced ALL the assembly including the pilot burner, thermocouple, electrode and injector must be exchanged complete for an original manufacturer's pilot assembly only. This atmosphere sensing device is not adjustable and must not be put out of action. The pilot light shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, do not use the fire, and have the flue and fire checked by a suitably qualified person.

Do not throw rubbish on the unit, as this will block or hamper its efficiency.

Due to the newness of the materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

This fire is approved for use with a flue system of 1.5m. If a flue system in excess of the specified length is used this may cause a very strong draw to occur which will result in the flame being adversely effected. This may cause the flame to be forced towards the back of the enclosure. This is unavoidable and is a site specific condition and does not indicate an appliance fault.

The fire must be installed with the fascia "floating" on the wall with the required "air intake" area provided as shown in the following pages. The fascia should never be "flush" mounted otherwise serious burner damage will occur.

The fire should never be operated without the heat shield in place. Any resulting damage is not covered by the warranty.

Building and Installation Work

A qualified person should complete all building work; a qualified and competent person to all relevant national legislative controls must carry out the installation of gas burners, mechanical extraction, flue systems and remote control units.

Building work

Building work should only commence after a thorough survey of the intended location of the impending installation has been completed and it has been established that the unit can be installed and operated without risk to the owner or tenants of the property or their neighbours.

Where existing chimney systems are to be used in conjunction with the Fire Ribbon, they should have been swept and undergone thorough examination to ensure that they are in a sound and safe condition, as well as providing an adequate draw when the gas fire unit is in operation.

A simple smoke test will reveal whether or not the chimney is working correctly.

Installation Procedures

It is important that the gas supply is disconnected before any old existing surround and hearth is removed.

The Fire Ribbon enclosure should be located centrally to the existing flue / chimney at your desired height.

If the fire is not placed central to the chimney, the flame picture may pull incorrectly.

In some installations it is necessary to install a small lintel unit above the opening, if so an allowance must be made to accommodate the lintel. NOTE - The Fire Ribbon does not have its own support lintel. NOTE - The support lintel is not supplied with the unit.

IMPORTANT – Before commencing any work check the type of fascia to be fitted.

For a Stone Fascia the enclosure front edge must sit 20mm out from the finished wall, regardless of the type of enclosure.

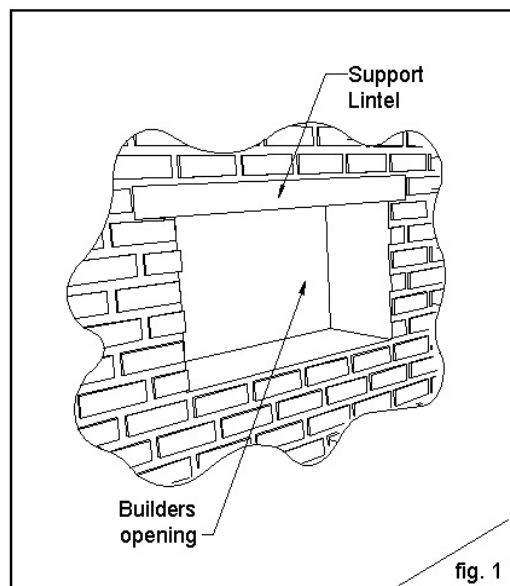
For a Metal Fascia the enclosure front edge must sit flush with the wall, regardless of the type of enclosure.

Fitting the optional Gather

If using with the optional Gather, dry fit the gather to the enclosure taking note of where the gather and enclosure overlap. In some installations it may be possible to insert the gather into the opening and lift up to allow space to slide the enclosure in. This reduces the need for a very large builders opening. The joint between gather and enclosure must be sealed by silicone or metal tape to ensure an airtight seal when fitting the gather. Screw the gather in place from the inside of the enclosure using the 6 countersunk screws provided.

Fitting the Metal Enclosure

The original fire opening must be closed, using bricks / blocks infill the opening to the required base of the burner, the void behind the brickwork should also be filled; block work or rubble can be used. (It is advisable to install a solid base inside the fire opening to sit the steel framework supporting the burner unit and stone or metal enclosure on to.) It is advisable to allow 15mm clearance in the height of the fire opening; this can then be filled with cement ready for the burner to be placed onto.

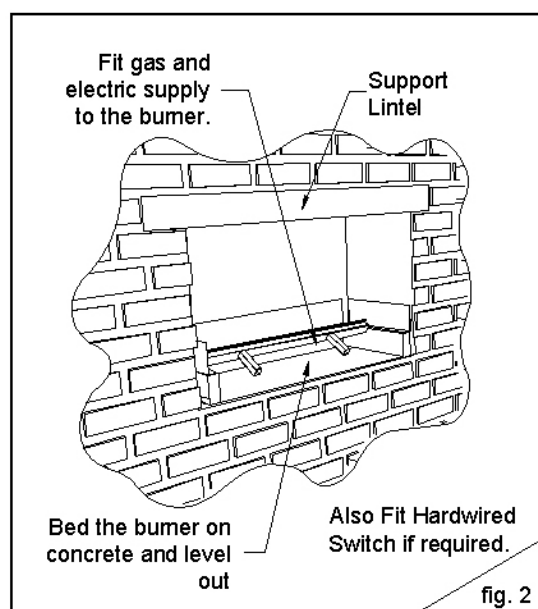


On the base of the fire allow a 15mm bed of cement to bed the burner onto.

NOTE – When bedding the burner unit the enclosure front edge must be positioned depending on the fascia type (see page 12). Incorrect positioning of the enclosure will result in burner damage.

When fitting the gas supply note to maintain a good standing pressure we recommend that a 22mm supply be piped in as close as possible with a reduction down to 8mm diameter copper pipe (no longer than 1 meter in length – gas supply to the burner unit) must be installed, the gas supply pipe should run into the installed burner unit from or left / right hand sides of the burner unit.

Additionally a 240volt 3amp fused spur power supply should be installed within or next to the fire opening; this will be the power source for the remote control system. At this stage a provision for the hard wire switch position should be considered.



The steel gather unit (if required) should now be held up in the opening for preparation on the fitting of the enclosure. Note if the standard gather is not going to be used to exhaust the combustions provisions should be made in accordance with Corgi regulations.

The steel frame/burner unit is then positioned so that the front edge is positioned as per the fascia type to be fitted (see page 12). Once the steel frame/burner is correctly positioned it is then fixed using fixing screws, which pass through the frame into the newly built fire opening brickwork. The Enclosure must be secure and unable to move. The air intake area at the front of the fire must be left open.

NOTE: Great care must be taken when inserting the shelves to avoid scratching the inside of the metal enclosure.

The gas and electric supply is now connected and the burner unit is to be tested for safe operation. The hard wire switch cabling also needs to be routed.

Fitting the Stone Enclosure

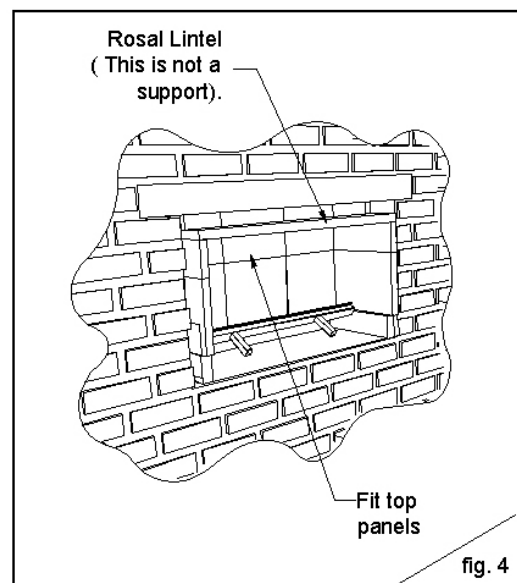
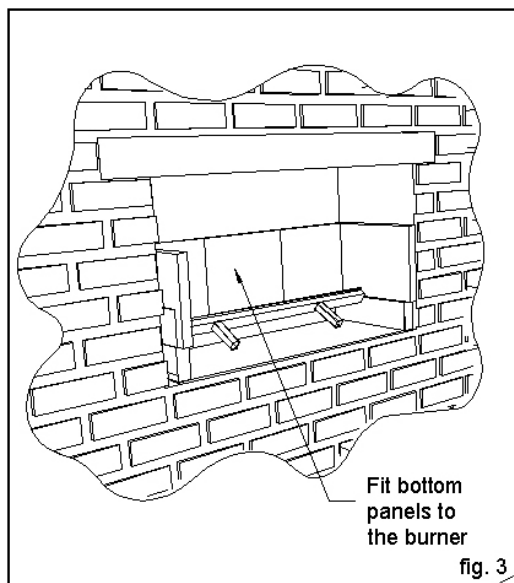
Once the steel burner unit fixed in position, the assembly of the enclosure can commence.

There are Ten stone panels marked up **A, B, C, D, E, F, G, H, I, J**, or **part A for the metal version** that make up the side and rear panels of the enclosure. Note all stone panels should be bonded together with a high temperature silicone, this is very important that the stone panels can expand and contract.

If the panels are fixed solid the panel will be susceptible to cracking. Stone panels G, H, I, make up the bottom of the rear panel, these can be placed in position CVO advise to put a small bead of silicone on the base and to uprights, **(the bead of silicone needs to be at the rear of the stone panel, so when the stone panels are pushed together the silicone doesn't come out on the front face) if the silicone comes through onto the front do not attempted to wipe it off let the silicone set then run a sharp blade down the bead then remove.**

Place stone panel **H** in the centre at the rear of the inglenook, then stone panels **G** and **I** can be placed in position (fig 3) left and right of piece **H** butt the panels against each other making sure the faces are level with each other (useful tip is to use silver foil tape along the top edge of the panels to hold them in position while the silicone sets) Stone panel **F** can now be bonded in place with silicone on the bottom and back edge, use silver foil tape to hold in position. Repeat this procedure on stone panel **J**.

Once you are happy that the layer is stable repeat the same procedure again for stone panels **A, B, C, D & E**.



Once the side and rear panels have been checked to ensure that they are correctly aligned and flush with each other, the steel gather unit is lowered into position on top of stone parts **A, B, C, D, E**, or metal part **A**. The gather unit is used as an option. When the standard gather is not used, provisions should be made to hold the panels in the correct position.

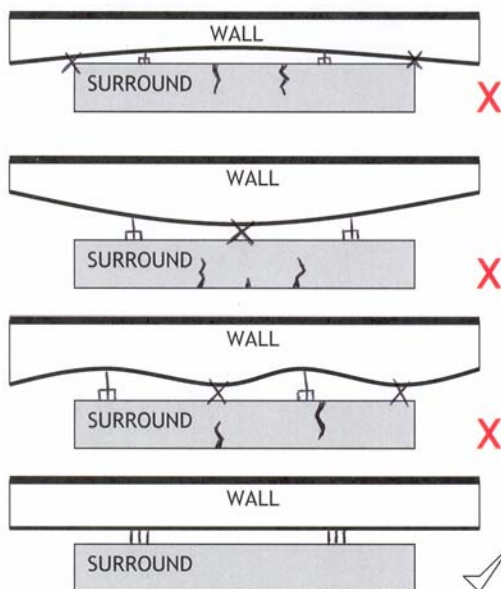
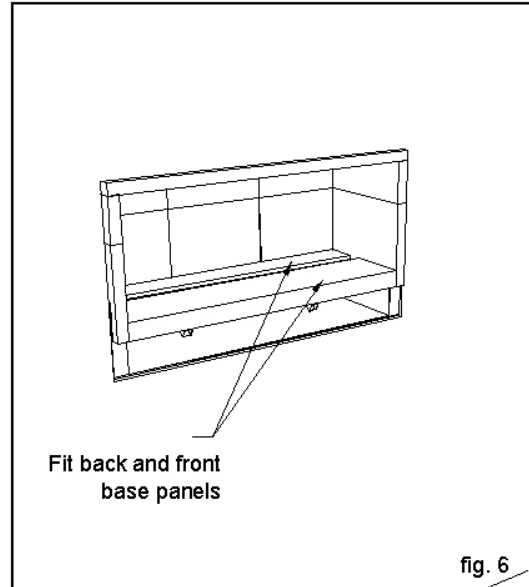
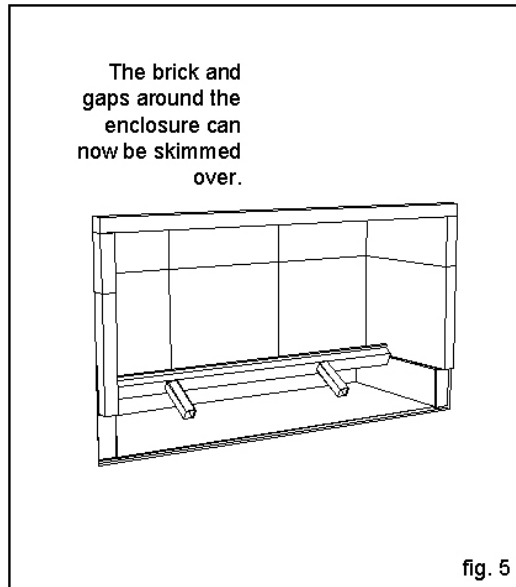
Note: If the standard gather is not used, the flue must be connected to the enclosure in accordance with CORGI and local regulation.

Note: When fitting the enclosure for a stone fascia, the enclosure (metal or stone enclosure versions) should be fitted 20mm out from the surface of the finished wall surface. When fitting the metal fascia the enclosure (metal or stone enclosure versions) is fitted flush with the wall.

Once the enclosure side and rear panels are fitted, the rear base stone part **L**, or metal part **B** is positioned (fig 6) to the rear of the enclosure on the stone version this is held between the rear panel and the steel burner or tabs on the metal enclosure (chamfered edge to the front).

Note: Ensure there is clearance between the pilot unit and stone back base.

The main base unit stone part **M** or metal part **C** is now slid into position, on top of the steel burner tray and between the two side panels this is fitted flush with the enclosure sides (chamfered edge to the rear).



The Fascia can now be fitted providing the wall surface is perfectly level both vertically and horizontally. See image left.

Important - If the wall is not level, the wall should be skimmed until level.

This shows positive areas that can cause fractures in the fascia / surround if fitted to a wall of uneven surface.

Failure to fit the fascia to a flat wall will cause serious damage to the fascia which is not covered by the warranty.

Fitting the Stone Fascia

Stone Fascia Hanging Bracket Positioning

Note: the Enclosure on the Stone Fascia Version must protrude by a total of 20mm from the wall. If this is not done flame performance will be affected and possible enclosure and burner damage will occur. This is NOT covered by the warranty.

The Wall bracket is supplied in 2 pieces. The first part is bonded to the stone at the factory. The second part is fixed to the wall. The fascia is supplied with the wall bracket attached. Remove the 4 cross headed screws, remove the wall bracket and put the fascia and screws in a safe place. Ensure the wall is flush before fitting the fascia. Position the wall bracket as shown below. Measure the dimension as shown below from top of enclosure lintel to the top edge of the wall bracket. The fascia is very heavy and the wall bracket must be secured into a solid surface using suitable screws & rawl plugs to ensure it cannot fall or be pulled from the wall.



Ventilation Air Intake.

For the burner to work correctly there should be an air intake cut-out below the front shelf as shown in the above image. This air void provides burner ventilation to ensure the flame remains stable and the remote system remains cool. The Air Flow is provided via the from fascia lower intake. Failure to ensure this will result in serious damage to the remote system. This damage is not covered by the warranty.

Hanging the Stone Fascia.

With the help of an assistant, lift the fascia into place. Unclip the remote magic eye and plug into the remote control (as shown on wiring diagram). Once the remote is attached lift the fascia on to the wall bracket. Refit the 4 cross headed screws and ensure fascia is secure.

WARNING: The fascia must never be sealed or built flush into the wall. The Fascia has an air vent at the lower edge. This with Air Intake provides ventilation to the burner unit. If this is blocked or the fascia not fitted in the way shown then serious damage to the burner and remote system will result. This damage is NOT covered by the warranty. See image left.

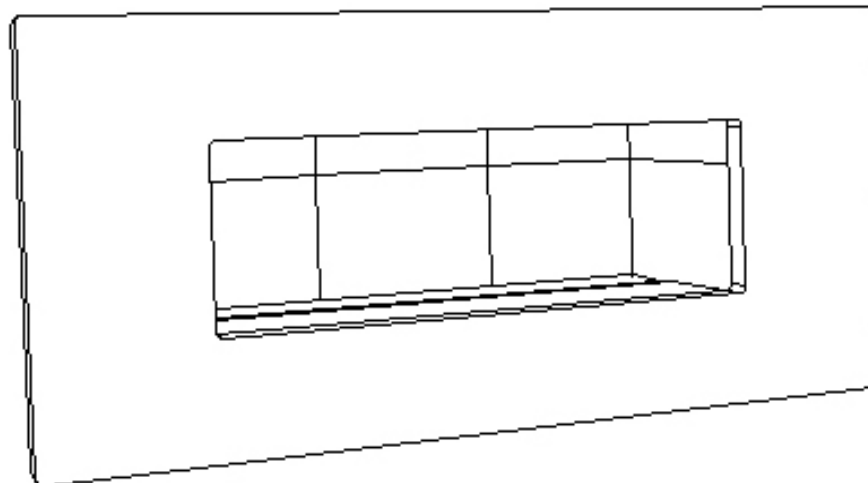


Fitting the Metal Fascia

- See information above for details of the Air Intake requirements.
- **WARNING:** the Enclosure on the Metal Fascia must be flush with the wall before attempting to fit the fascia.
- Put the fascia against the wall so that the lower edge is level with the shelf.
- Draw around the fascia.
- Remove fascia and turn over.
- Measure positions of screw key holes and mark this onto the wall.
- Drill and Plug holes. Fit Suitable Screws to a depth to ensure the fascia locks against the wall when fitted.
- With the help of an assistant, lift the Fascia towards fire.
- Unclip the remote magic eye and plug this into the remote box as shown on the wiring diagram.
- Lift fascia onto the wall until key holes line up then pus fascia down to lock in place.
- **WARNING:** The fascia must sit off the wall 40mm. It must never be installed "flush" into the wall or plaster. The fascia has an air vent which runs along the bottom. This plus the specified air intake area ensure the burner and flame perform as required. Failure to do this will result in serious burner damage and this is NOT covered by the warranty.

Metal Fascia

Put the fascia against the wall fitting flush with the bottom and sides. Draw around the fascia.



Measure the distances between the key holes on the back of the fascia, drill plug and screw to the wall where applicable and then attach the fascia.

fig. 9

Commissioning the Fire

Once the gas pipe, electrical connection and hard wire have been fitted ALL other access holes in the burner tray must be sealed by metal tape.

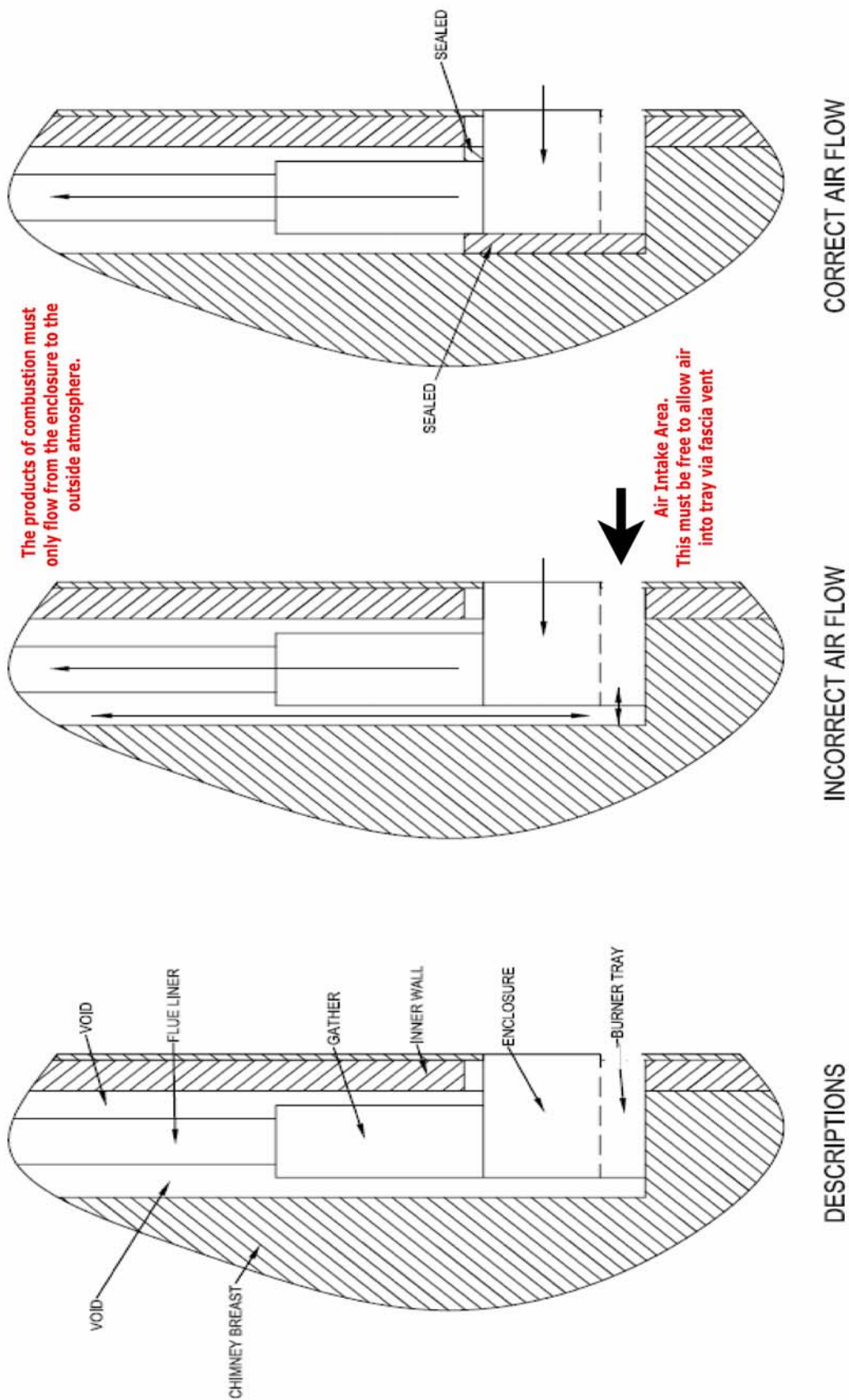
This appliance requires a specific amount of ventilation to function as designed (correct flame picture), therefore any unused utility access points in the burner tray must be sealed with Aluminium foil tape. When installing this into an existing chimney with a flue liner the enclosure & gather must be sealed to the existing chimney to ensure that air cannot flow behind the enclosure. Failure to do this will result in serious damage to the burner unit and enclosure. This damage is not covered by the warranty.

- The area below the shelves must be open to allow air into the burner tray via the fascia vent.
- Any other unused holes must be sealed with metal tape.
- If using the optional gather the gather, enclosure and flue liner must be sealed.
- The products of combustion must only flow out of the enclosure into the chimney. To ensure this the enclosure must be sealed to the construction opening.
- See the images below for guidance on sealing the unit and the air intake area.

Note: This fire must never be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system which will not be covered by the warranty.

We will not accept any claims for "melted remote system". In this instance in highlights a serious issue over installation, burner ventilation or use of the fire without the heat shield. Before repairing the cause of the melting must be rectified.

Guidance on Ventilation and Sealing



TEST THE GAS PRESSURE

Turn the fire on full; attach a manometer to the inlet test point and ensure there is a pressure of 20mbar (+/- 1mbar) for natural gas appliances or 37mb for propane appliances. Now turn on all the other gas appliances in the house and re check pressure. The pressure must still be in the tolerance of +/- 1mb. Now turn off all the other gas appliances and turn the fire down to pilot only, the pressure must still be in the tolerance of +/- 1mbar. If it is not, TRANSCO, BORD GAIS or the propane supplier must be called to adjust the governor to the house before the fire can be commissioned further.

For propane appliances, in order for the fire to operate consistently at least 2 x 47Kg bottles must be used with a changeover valve to maintain the inlet pressure at 37mBar.

The installer must check that all of the combustion products are entering the flue after 10 minutes by traversing the perimeter of the fireplace using a smoke (match).

Note: This fire must not be operated without the heat shield in place. Failure to do this will result in serious damage to the remote system which will not be covered by the warranty.

Brief the customer on the operation of the appliance and give them the instructions. The customer must be told of the need for regular servicing of the appliance, this will be at least once a year, and be made aware that no rubbish is to be thrown onto the fire bed. **The customer must also be aware that purpose provided ventilation should be checked regularly.**

If you have any questions, or the fire is not operating correctly, Contact the C V O studios BEFORE you leave the installation.

If the appliance is not fitted in strict accordance with these instructions, CVO cannot be held responsible for any damage caused and reserve the right to charge for any corrective work.

Oxygen Depletion Pilot System

There is a highly sensitive oxygen depletion sensor designed into the pilot light. If any part is damaged the entire unit must be replaced. Do not attempt to bend or alter the flame head, thermocouple or aeration hole. Use only genuine spare parts as similar looking parts from other appliances may well give different or inferior performance and could lead to a hazard.

Reset the Appliance

Hand Held Remote Unit

To start your appliance, press both buttons on the hand-held remote unit, hold them down for a minimum of three seconds until the ignition process begins which will run for 19-20 seconds before it turns onto the main burner. After the burner has ignited, it can then be switched to high or low using the button on the right side of the handset.

Wall Mounted Remote Switch

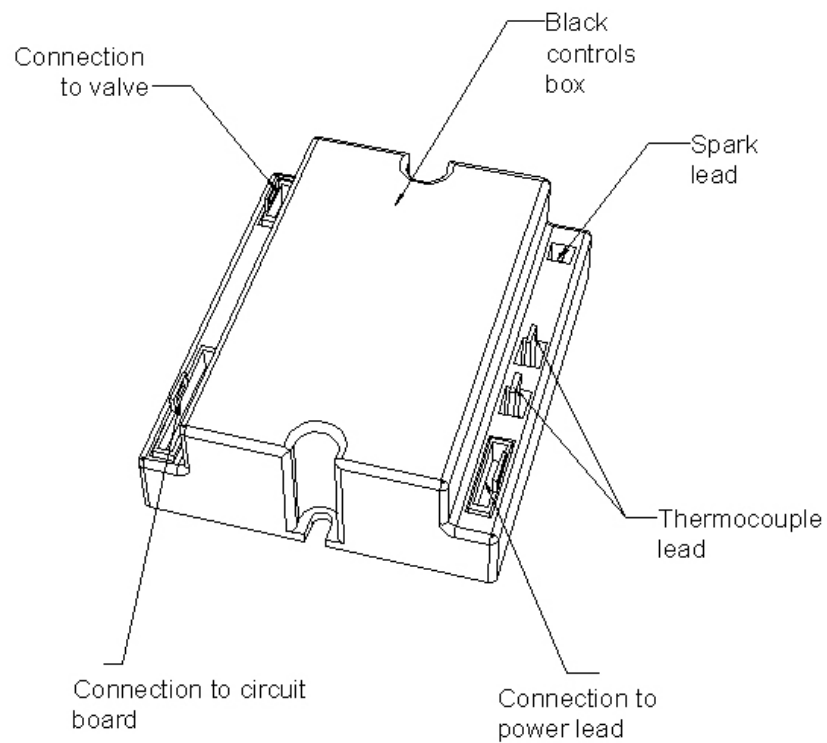
Unlike the hand held unit, you are only required to press one switch. Press the left switch for 2 – 3 seconds. The ignition sequence will continue for 20 seconds before the burner is ignited to high flame position. The right button is only for turning the fire from high to low setting and vice versa.

Fault Diagnosis / Troubleshooting

Symptom	Check List	Tick
Unit does not respond.	Check Remote handset is working properly and battery is charged	
	Check power supply has not been switched off	
	Check fuses in spur	
	Check wiring is correct on fire and hardwire switch	
Remote Handset Does not work	Check Battery Power	
	Check Remote eye is visible and facing in the correct position	
Hardwire manual switch does not work.	Check Switch is wired properly	
	Check Hardwire switch's Green Block is wired correctly	
Unit clicks but no spark or weak spark.	Check spark lead is connected properly	
	Check spark electrode is in the correct area and the gap correctly distanced	
Unit sparks but does not light pilot.	Check for a good spark	
	Check the spark is in the right area	
	Check if the ventilation is not too strong and the flame is not blowing off the thermocouple	
	Check if there is gas running through	
	Check gas working pressure is correct : NG – 20mBar, LPG 37mBar	
	If fire is running on LPG, please refer to 'LPG Bottle Users' section below	
If there is no gas.	Check isolation tap/shut off valves are free from grease	
	Check isolation tap/shut off valve are on	
	Check for blockages	
	Check gas working pressure is correct : NG – 20mBar, LPG 37mBar	
	If fire is running on LPG, please refer to 'LPG Bottle Users' section below	
If there is gas but pilot does not light	Check gas working pressure is correct : NG – 20mBar, LPG 37mBar	
	Check for blockages in pipes	
	Check for draughts which can reduce pilot flame	
	Check the pilot gas slot is clear of debris	
Pilot lights but does not light main burner	Check the pilot flame is heating the thermocouple and there is a draft shield fitted if required	
	Check the thermocouple nut is properly tightened into the valve/interrupter block	
	Check that the pilot lights early on ignition clicks	
	Check ventilation is not too strong and the flame is not blowing off the thermocouple	
	Check gas working pressure is correct : NG – 20mBar, LPG 37mBar	
Burner lights but turns off after a few minutes	Check thermocouple nut is properly secured to the interrupter block on the valve and Flame Failure devise is operating correctly	
	Check ventilation is not too strong and the flame is not blowing off the thermocouple	
	Check gas working pressure is correct : NG – 20mBar, LPG 37mBar	
	If fire is running on LPG, please refer to 'LPG Bottle Users' section below	
Flame is laying back or being sucked under the burner	Check that any unused utility access points in the burner tray have been sealed.	
	Check that the draw of the chimney is not too strong.	
	Check if the appliance requires a gather.	
	Check if the appliance requires a flue liner.	
LPG Bottle Users	This burner operates at 20Kw on LPG. In order for the fire to operate consistently at least 2 x 47Kg bottles must be used with a changeover valve to maintain the inlet pressure at 37mBar. If the fire shuts down after a few minutes then check your bottle set up or call your local Calor supplier for advice	

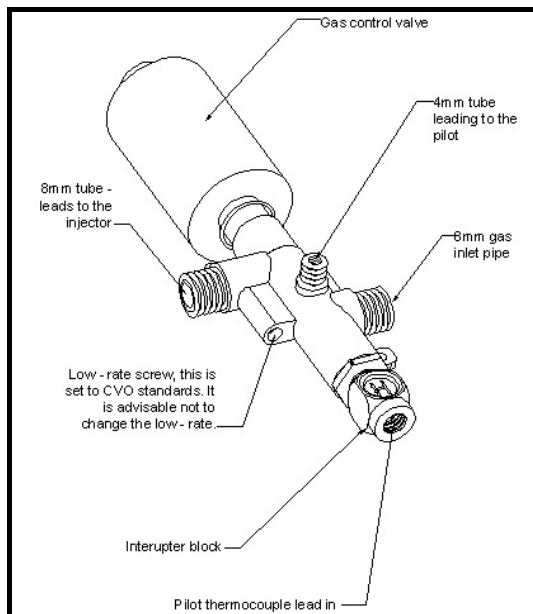
Remote Control Components

Black Box

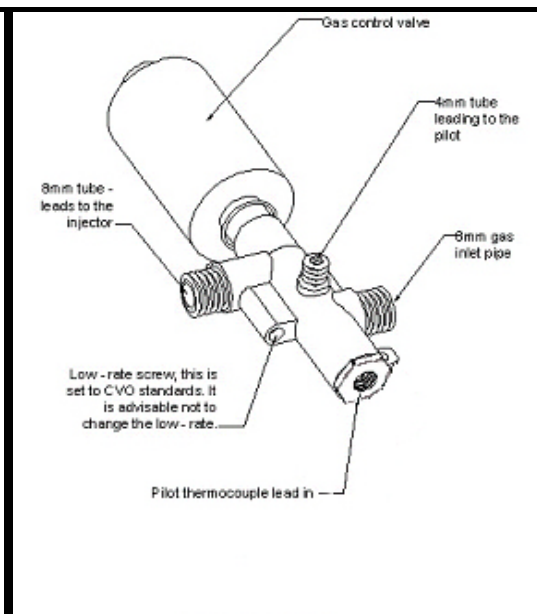


Remote Valve

NG Version

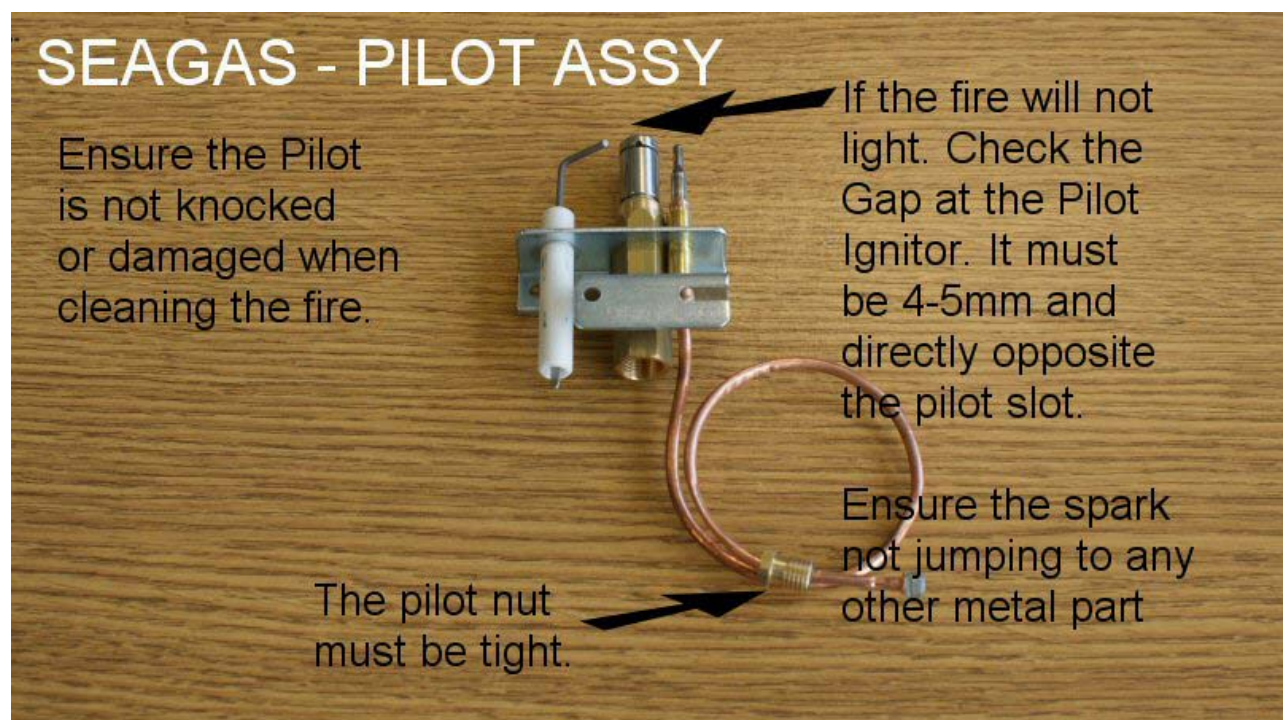


LPG Version

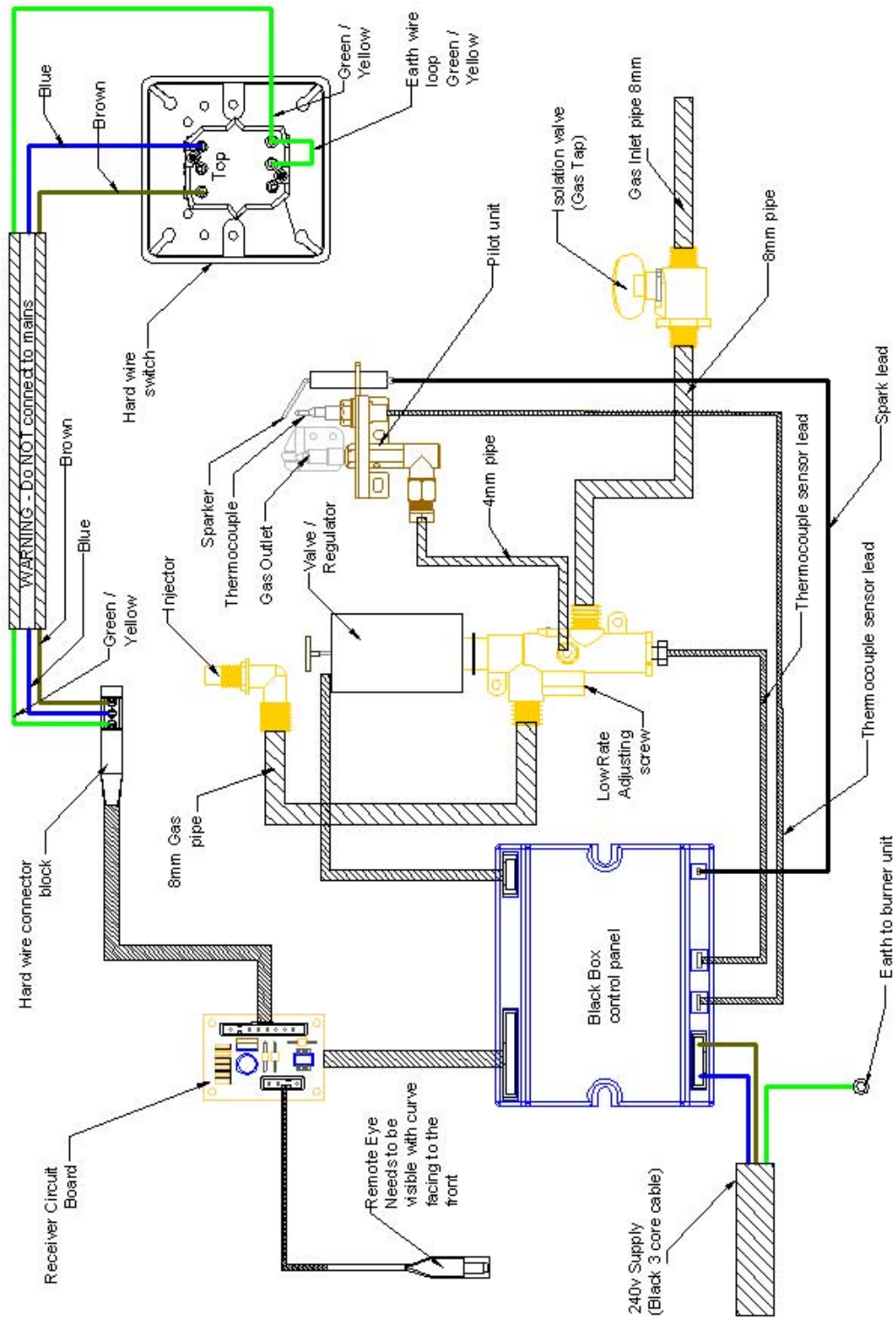


Spark Failure

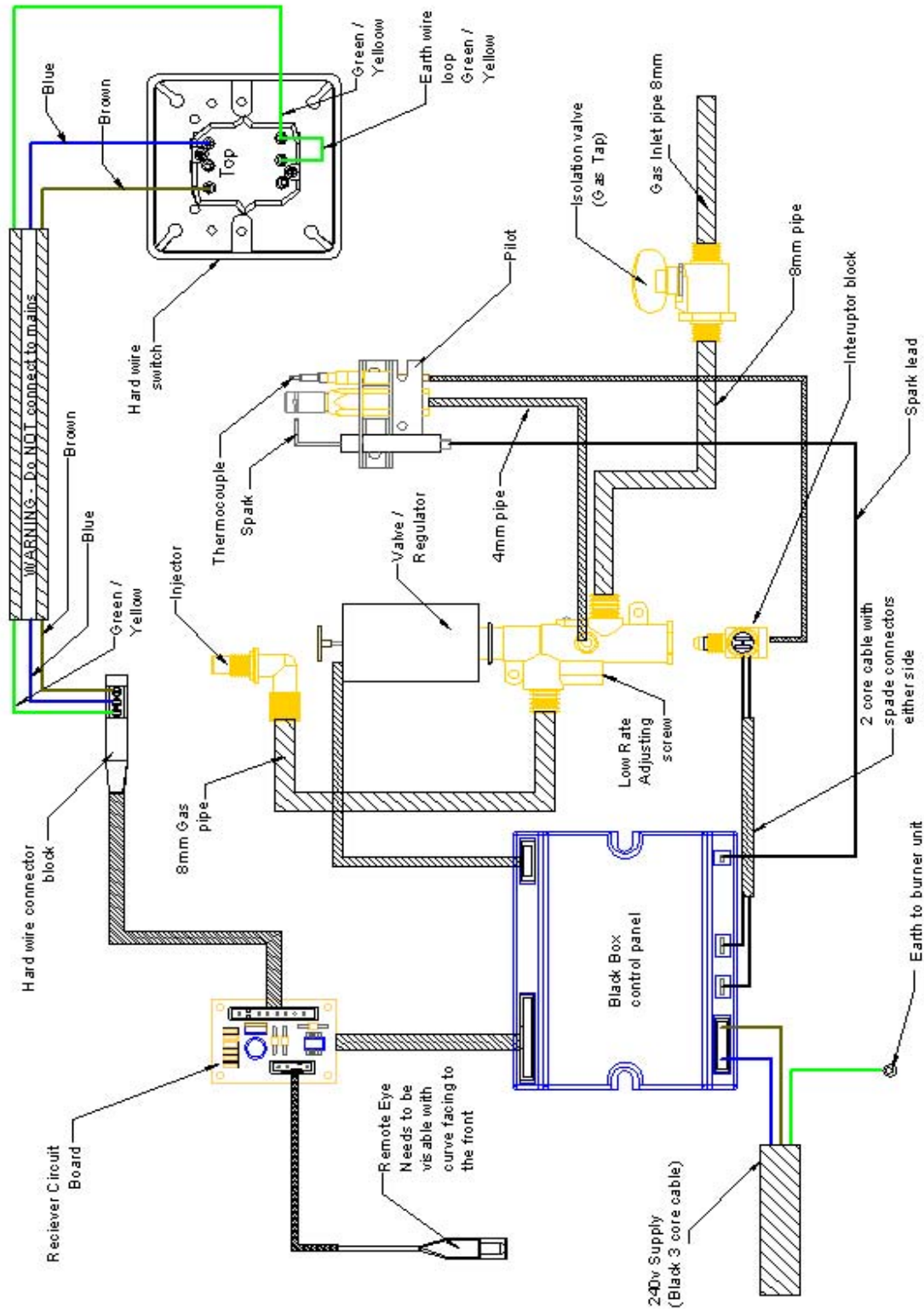
The gap between the pilot electrode and the pilot should be 3.5 – 4.5mm and normally adjustment is not necessary (the electrode is very brittle). The spark should jump across the gap between the electrode and the gas outlet on the pilot head. If the ignitor fails, a lighted taper can be inserted into the pilot area to check that gas is reaching the pilot.



Remote Wiring Diagram – SIT PILOT



Remote Wiring Diagram – SEAGAS PILOT



Exchangeable Components List

Part Code	Item Description	Code Number	Engineer Exchange Parts	User Exchange Parts
AC001	Pilot Assembly	SIT 9103 [NG]	Yes	No
AC066	Pilot Assembly	P4-70 [NG]	Yes	No
AC006	Pilot Assembly	P4-14 [LPG]	Yes	No
AC058	Pilot Assembly	SIT 9272 [LPG]	Yes	No
AC004	Injector - NG	090 [x 2]	Yes	No
AC021	Injector - NG	460 [x 2]	Yes	No
AC063	Injector - NG	440 [x 2]	Yes	No
AC069	Injector - NG	340 [x 2]	Yes	No
AC096	Injector - NG	300 [x 2]	Yes	No
AC002	Injector - LPG	1.60mm [x 2]	Yes	No
AC080	Injector - LPG	1.25mm [x 2]	Yes	No
GC001	Wall Switch Interface	30106600007	Yes	No
GC002	Remote Valve	81104610000	Yes	No
GC003	EDB-Black-Box	30106605000	Yes	No
GC010	Hand Set	30106600204	Yes	Yes
GC011	IR Interface	30106600502	Yes	No
GC032	Ignition Lead	30106600401	Yes	No

For spare parts contact CVO Customer service on 01325-327221. Before calling please ensure t have the following information available:

- Fire Type
- Gas Type
- Serial Number (front of booklet)
- Gas Safe Installer Details
- Fascia Type
- Gather Unit Fitted

Servicing Instructions

General

The following servicing procedure should be carried out regularly and only by a qualified person.

Note: foreign bodies which can gather on the surface of the burner unit it is inevitable that servicing can be a dusty operation. Suitable precautions should be taken.

Important: The pilot and flame sensing device fitted to this fire is also an atmosphere sensing device. If for any reason any part of the pilot assembly is to be replaced, the entire assembly including the pilot burner, thermocouple electrode and injector must also be exchanged. This atmosphere sensing device is not adjustable and must not be disabled.

Servicing procedure

- Step 1:** Turn off the fire and allow it to cool.
- Step 2:** Turn off the gas supply at the isolation tap.
- Step 3:** Disconnect the gas pipe from the valve. Lift the burner tray clear of the Fire Ribbon.
- Step 4:** Remove the injector from the venture. Making note of the aeration settings. Clean the injector. Do not use a needle or wire. It may be necessary to remove the outer fire casing to gain access to the injector. Refit injector and ensure aeration is set as per factory settings.
- Step 5:** Using a soft brush or vacuum cleaner, remove any debris from the top surface of the fire unit.
- Step 6:** Re-assemble in the reverse order, and re-connect the gas supply.
- Step 7:** Check for gas soundness.
- Step 8:** Check that any purpose-provided ventilation is free from obstruction.
- Step 9:** Re-commission the fire as described in 'Commissioning the fire'.

Service and Aftercare Requirements

When completing the annual service of the unit, refer to the enclosed technical installation and operational manual & the remote control instruction document.

The gas unit should be installed to the manufacturer's instructions by a Gas Safe registered gas installer, every 12 months the gas fire unit should undergo a regular service, this work should be carried out by a competent person who is Gas Safe registered, familiar with the CVO Fire range of goods.

When carrying out the annual service, the competent person should examine and verify the following;

- The correct safe operation of the ODS (oxygen depletion system)
- That the fire unit correctly cross-lights
- A pressure drop test to verify that there are no gas leaks
- That the electronic ignition system operates correctly
- That the burner surface is free from damage and debris
- That the owner has a copy of the installation and operation manual

Warning: Fire Guards & Hearths

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised.

It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.

The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame.

In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

Hearths

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

Fire Ribbon™

USER HANDBOOK



Contents

Page 37	General
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Page 40	Infra Red Remote Replacing the Battery
Page 41	Cleaning Instructions
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Page 42	Servicing Information
Page 43	Warranty Information
Page 44	Contact Details

General

This fire is intended for decorative purposes. Any purpose-provided ventilation should be checked regularly to ensure that it is free from obstruction. The fire should be serviced regularly by a qualified person.

The chimney should be swept before the appliance is installed, and should be swept and inspected regularly to ensure that all of the products of combustion are entering the flue and there is no excessive build up of soot.

Do not throw rubbish et cetera upon the surface area or otherwise disturb the fuel bed. Debris from any source, or soot formed, should be removed from time to time, see 'Cleaning instructions'.

The pilots ODS (Oxygen depletion sensor) must not be put out of operation.

The user must not adjust the pilot.

If any of its parts are damaged and need to be exchanged the original manufacturers parts must be used.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing device, which shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, restart the fire following the procedure in section 20.9.1 'Lighting the fire'. If the fire continues to shut itself off do not use the fire, and have the flue and fire checked by a suitably qualified person.

Once the flue and fire units have been checked and remedial action taken, the fire is ignited in the manner depicted in section 20.9.1 'Lighting the fire'.

Due to the newness of materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

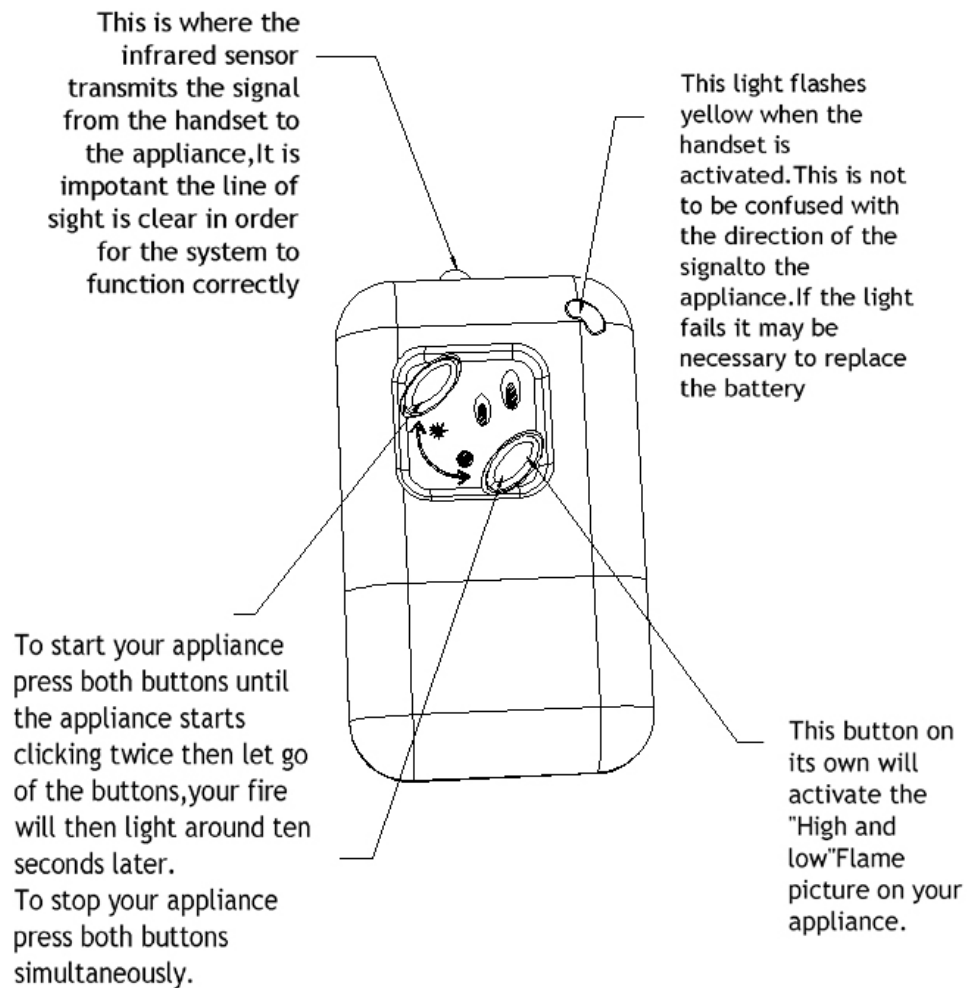
For some countries a purpose provided air supply must be fitted in accordance with National Regulations (e.g. UK – minimum 100 cm²).

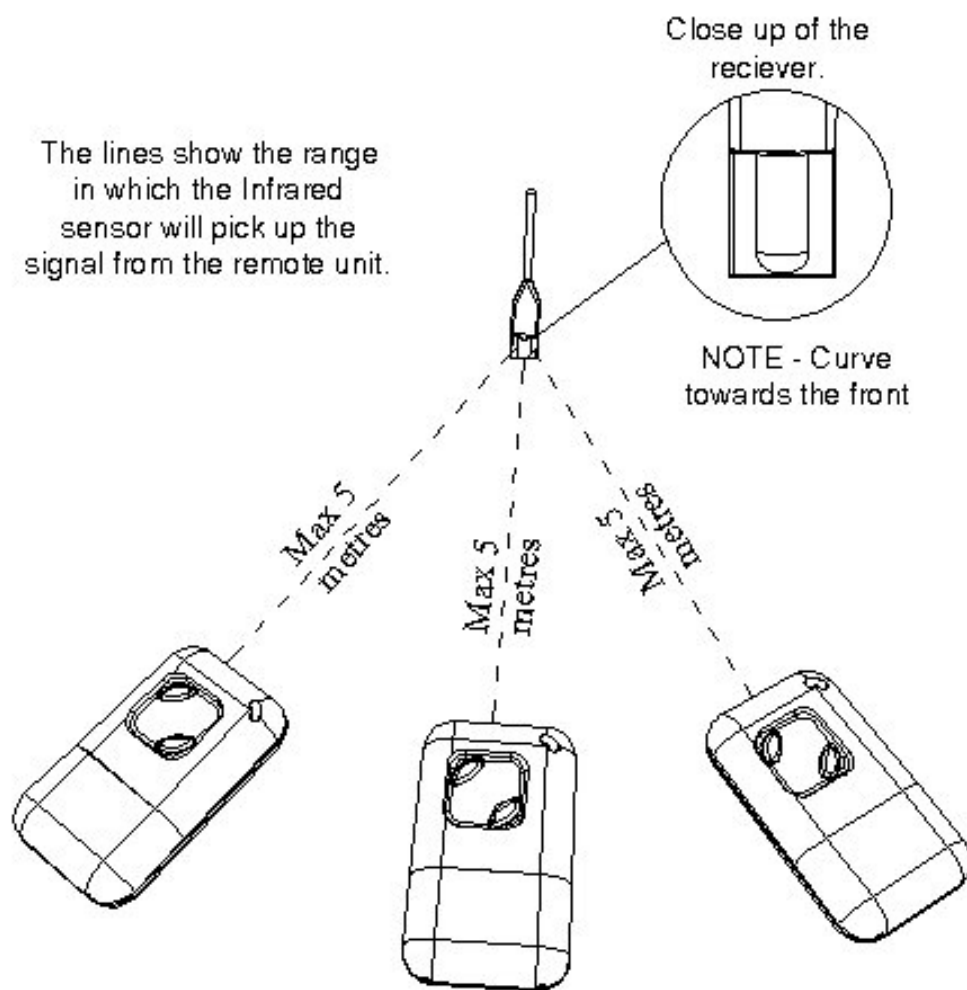
This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

Lighting the fire

Infra-Red Remote Operation

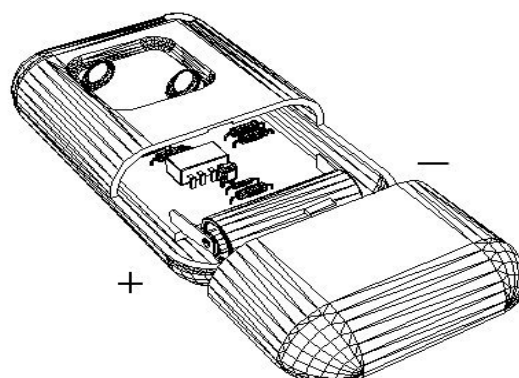
Infrared systems require "Line of sight" between the handset and the sensor at the appliance, it is a standard safety feature to ensure that the appliance cannot be remotely lit from another room.





The range of your remote control unit is around 5 metres. It is very important the handset is directed toward the infrared eye on the appliance

Infra-Red Remote Replacing the Battery



Fitting the battery.

Remove the front bottom half of your remote unit using a small screw driver.

Place in the battery with the + on the left hand side of your unit and replace the cover.

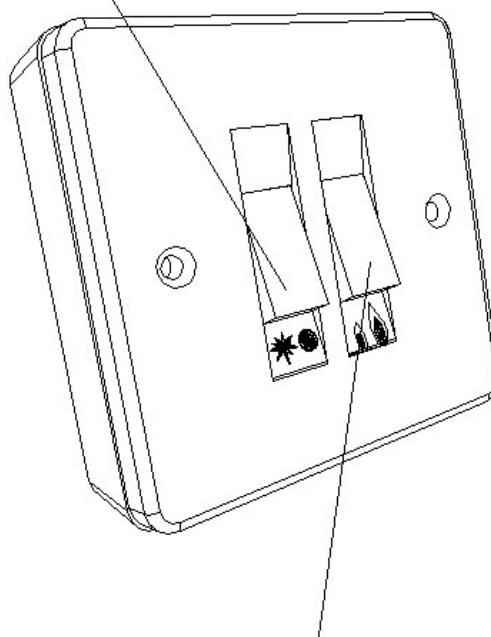
A battery is supplied with your surround.

Batteries are available to buy from most jewelry shops, or from ourselves.

Hardwired Wall Mounted Switch

Press the ON/OFF bottom (left side) for 2-3 seconds (until the spark ignition sequence begins) and release. The ignition sequence will continue for a further 10-15 seconds before the burner is ignited to the "High position."

To switch off press the ON/OFF button for 2-3 seconds.



Press the HIGH/LOW button (right side) for 2-3 seconds the appliance will change to low rate. This operation is repeated to switch between high and low.

Cleaning Instructions

Before cleaning the appliance turn off the Fire unit and allow it to cool for a number of hours. Before using any cleaning materials test a small area first to ensure compatibility with the appliance finish. CVO Fire cannot be held responsible for damage caused by cleaning the appliance.

Burner Bar / Deposits

It is normal for the burner bar to show a redish or white deposit. This is caused by bi-products of the gas being burnt and is unavoidable. This can be remedied by using a stove paint like **Hotspot High Temperature Stove Paint** which is sold in 100ml cans online for approx £7. Similar products may also be available from major DIY stores or fireplace retailers. It may be required to paint the burner bar every 6 months or so depending on usage.

Cleaning the Gas Fire Burner and Enclosure

The most effective method of dust/debris removal is achieved with the aid of a vacuum cleaner however; great care must be taken to ensure that the pilot assembly is not touched. Using a vacuum cleaner with a soft brush head gently remove any debris/dust from inside the enclosure and around the burner unit. Once all of the dust and debris has been removed the surfaces can be cleaned with the use of a soft cloth and a hand held "stainless steel" cleaner which is available from most supermarkets.

Cleaning the Metal Fascia

This can be done with a soft cloth and a hand held "stainless steel" cleaner which is available from most supermarkets.

Cleaning the Stone Fascia

This can be done with a soft cloth and "stone cleaner" which is available from most supermarkets.

Removing spillages

This appliance has an electronic remote system. Where a liquid has been spilled onto the surface of the fire or enclosure DO NOT USE THE APPLIANCE – contact your installer to ensure the remote system functions correctly.

Wax

Never place candles on the burner shelves. If molten wax enters the burner unit – DO NOT USE THE APPLIANCE – contact your installer to remove the spillage and ensure the remote system functions correctly.

Warning: Fire Guards & Hearths

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised. It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.

The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame.

In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

Hearths

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

Servicing Information

The only user exchangeable parts on this appliance are the remote handset. All other repairs must be carried out by a gas safe registered engineer.

It is advised to get this appliance serviced every 12 months by a registered GAS SAFE ENGINEER.

WARRANTY INFORMATION

If the appliance develops a fault please refer to the fault diagnosis section earlier in this booklet for possible causes.

This appliance is supplied with a 12 month warranty from the date of delivery.

The Warranty covers defective parts and does not cover typical wear and tear that occurs with a gas fire appliance.

In order to make a warranty claim you will be required to supply the serial number of the appliance [as shown on the front of this book] and full details of the GAS SAFE engineer who installed the appliance - we may request a copy of the installation receipt.

To register your appliance please complete and return the warranty card supplied with the fire.

Failure to supply details of the Registered Engineer who installed the appliance will invalidate the warranty.

To raise a warranty claim call Customer Service on 01325-327221.

IMPORTANT NOTE:

This fire must never be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system which will not be covered by the warranty.

We will not accept any claims for “melted remote system”. In this instance in highlights a serious issue over the installation, incorrect burner ventilation, flame reversal or use of the fire without the heat shield. Before purchasing parts to repair the fire the cause must be rectified.

We will not accept any claims where the burner wiring or connections have been tampered with.



ONLY USE GENUINE REPLACEMENT PARTS.

**Spirit Fires Ltd,
4 Beaumont Square
Aycliffe Industrial Park,
Newton Aycliffe
County Durham,
DL5 6XN
T – 01325 327 221
F – 01325 327 292**

**The information supplied in this manual is correct
at the time of publication;
Dated on the 7-2-2012.**

**There may be changes made in future as we
improve our products. If there are any queries
please write or call our technical department.**